

PATENT SPECIFICATION



605,799

No. 417/46.

Application Date: Jan. 4, 1946.

Complete Specification Left: Feb. 3, 1947.

Complete Specification Accepted: July 30, 1948.

Index at acceptance:—Class 94(i), G1g.

PROVISIONAL SPECIFICATION

Improvements in or relating to Seed Packages

I, BRYAN WILLIAM ANSTEY, a British Subject of 9, Richmond Gardens, Hendon, London, N.W.4, do hereby declare the nature of this invention to be as follows:—

This invention relates to a method of packaging seeds of any type, including peas, beans and potatoes, which will not only enable such seeds to be sown at the 10 appropriately-spaced intervals, but by the incorporation of an appropriate fertilising substance during the packaging process will facilitate germination.

According to the present invention, the 15 seeds are carried by a strip of paper or other suitable material, the seeds being appropriately spaced apart throughout the length of the strip, the strip also carrying an appropriate quantity of fertilising 20 material in close proximity to each seed so as to have the desired germinating effect on its associated seed when the strip has been buried in a suitable drill or trench.

25 It is preferred to carry the seeds and fertilising material in suitably-spaced pockets in the strip, an appropriate quantity of fertilising material being either placed in each seed-containing 30 pocket or placed in a separate pocket adjacent to or in close proximity to each seed pocket. The pockets may be in the form of patch pockets secured to the strip, or the strip may be of double thickness, 35 the pockets being formed for example by

crimping the strip at appropriate intervals. The seed and fertiliser-containing pockets may be alternately arranged throughout the length of the strip, or the seed and fertiliser pockets may be 40 arranged side by side or in longitudinally-staggered relationship.

The strip may be of paper, for example rice paper or other substance which will rapidly disintegrate under the action of 45 moisture, and it is within the scope of the invention to form the strip from some suitable manurial substance, or to incorporate such a substance in its composition, in which case the provision of additional 50 fertilising material may be rendered unnecessary.

It will be appreciated that the seeds will be spaced apart along the length of the strip an amount appropriate to the 55 requirements of the ensuing seedlings.

It is preferred that each strip shall be wound into the form of a roll, which may be self-centred or carried by a central core, for sale before use, the roll being then 60 unwound as required; the rolls being, for example, enclosed and sealed within drums in waxed paper or other containers.

Dated this 4th day of January, 1946.

For the Applicant:
F. J. CLEVELAND & CO.,
Chartered Patent Agents,
29, Southampton Buildings,
Chancery Lane, London, W.C.2.

COMPLETE SPECIFICATION

Improvements in or relating to Seed Packages.

I, BRYAN WILLIAM ANSTEY, a British Subject, of 23, Sunningfields Road, Hendon, London, N.W.4, formerly of 9, Richmond Gardens, Hendon, London, N.W.4, do hereby declare the nature of this invention and in what manner the 70 same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to packages for seeds and has for its object the provision of a seed package for seeds of any type, including peas and beans, which will not only enable such seeds to be sown at the appropriately-spaced intervals, but by the incorporation of an appropriate fertilising substance during the packaging process will assist the growth of the result. 75 80

ing seedlings.

It has been previously proposed to provide a seed package in which the seed is surrounded by a small quantity of fertiliser and is carried at spaced intervals in a strip of paper twisted to form a string. It has further been proposed to supply seed packages consisting of two sheets of rice paper between which the seeds are arranged in rows, being held in place by an adhesive.

In a seed package according to the invention for containing a plurality of seeds in individually spaced relationship, each seed is contained in a separate totally enclosing pocket, the pockets being formed either as patch pockets secured to a single strip of paper or other suitable material or as cavities formed between two strips of paper or other suitable material adhesively secured together, the seed packages also carrying an appropriate quantity of fertilising material or plant food in close proximity to the seeds. The fertiliser may be carried either in the same pockets as the seeds or in a second series of pockets formed on the strip. The seed and fertiliser-containing pockets may be alternately arranged throughout the length of the strip, or the seed and fertiliser pockets may be arranged side by side in longitudinally-staggered relationship.

The strip may be of paper, for example rice paper or other substance which will rapidly disintegrate under the action of moisture, and it is within the scope of the invention to form the strip from some suitable manurial substance, or to incorporate such a substance in its composition, in which case the provision of additional fertilising material may be rendered unnecessary.

It will be appreciated that the seeds will be spaced apart along the length of the strip an amount appropriate to the requirements of the ensuing seedlings.

It is preferred that each strip shall be wound into the form of a roll, which may be self-centred or carried by a central core, for sale before use, the roll being then unwound as required; the rolls being, for example, enclosed and sealed within drums in waxed paper or other containers.

In order that the invention may be clearly understood and readily carried into effect the invention is hereinafter described with reference to the accompanying drawings in which:—

Figure 1 is a plan view of one form of seed package in accordance with the invention;

Figure 2 is a longitudinal section of the same;

Figure 3 is a plan view of a modified form;

Figure 4 is a longitudinal section;

Figures 5 and 6 are respectively a plan view and longitudinal section of a further modified construction;

Figure 7 is a plan view illustrating a further arrangement.

Figures 1 and 2 disclose a construction comprising a paper backing strip 1 to which are secured a series of longitudinally spaced patches 2 forming patch pockets in each of which is accommodated a seed 3 and a quantity of fertilising material 4.

In Figures 3 and 4 two paper strips 1 are employed which are crimped to provide a series of spaced pockets formed as cavities between the two strips of paper containing the aforesaid seeds and fertilising material, the strips being adhesively secured together as at 5 along their longitudinal edges and around each pocket as at 6.

In Figures 5 and 6 the method of construction is similar to Figures 3 and 4 but in this case the longitudinally arranged pockets are arranged closer, alternate pockets containing seeds and fertilising material. For example, each alternate pocket may contain a seed and an appropriate quantity of non-burning plant food 4 such as hop manure, the intermediate pockets containing a fertiliser 4a such as, for example, potash.

Referring now to Figure 7 a similar method of construction is again employed but in this case two rows of pockets are provided, one row, for example containing seeds and a suitable non-burning plant food such as hop manure, the other row of pockets containing a suitable fertiliser such as potash.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A seed package for containing a plurality of seeds in individually spaced relationship, characterised in that each seed is contained in a separate totally enclosing pocket, the pockets being formed either as patch pockets secured to a single strip of paper or other suitable material or as cavities formed between two strips of paper or other suitable material adhesively secured together, the seed package also carrying an appropriate quantity of fertilising material or plant food in close proximity to the seeds.

2. A seed package as claimed in Claim 1, wherein a quantity of fertilising material consisting of hop manure or other non-burning plant food is carried in each seed pocket.

3. A seed package as claimed in Claims 1 or 2, wherein fertilising material is

80

85

90

95

105

110

115

120

125

130

carried in a second series of pockets formed on the flat strip of paper or other suitable material.

4. A seed package substantially as hereinbefore described with reference to any of the examples illustrated in the accompanying drawings.

Dated this 3rd day of February, 1947.

For the Applicant:
F. J. CLEVELAND & CO.,
Chartered Patent Agents,
29, Southampton Buildings,
Chancery Lane, London, W.C.2.

Leamington Spa: Printed for His Majesty's Stationery Office by the Courier Press.—1948.
Published at The Patent Office, 25, Southampton Buildings, London, W.C.2, from which
copies, price 1s. 0d. each (inland) 1s. 1d. (abroad) may be obtained.

[This Drawing is a reproduction of the Original on a reduced scale.]

Fig. 1.

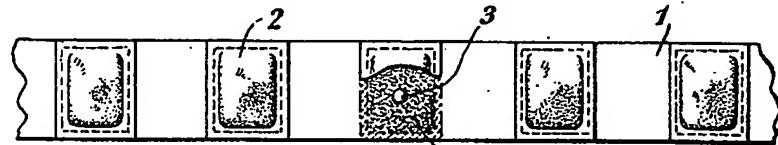


Fig. 2.



Fig. 3.

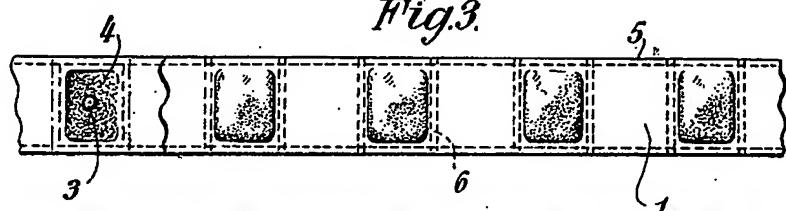


Fig. 4.



Fig. 5.



Fig. 7.

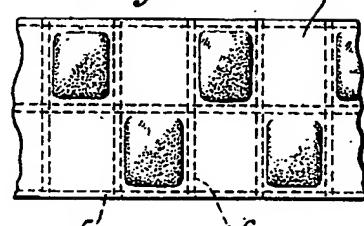


Fig. 6.

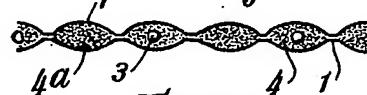


Fig. 8.